

# T2Blue Floor Heating Cable



nVent RAYCHEM T2Blue is an electrical floor heating cable for new build projects where the cable is installed directly in 10-15 mm of screed (T2Blue-10) or in 30-50 mm of screed (T2Blue-20). The cable does exist in 2 power output variants of 10 W/m and 20W/m and available in pre-terminated lengths (11-200 m). The range is composed of installer friendly kits including the cable on a spool and all installation accessories. Variants without thermostat and including the SENZ WIFI touchscreen thermostat are available.

## FEATURES

Easy installation: flexible cable, pre-terminated with power cable

T2Blue-10 is typically installed in low construction floors (10-15 mm), directly in screed, in self levelling compound or in uncoupling membrane

T2Blue-20 is typically installed in high construction floors (30-50 mm), directly in screed on concrete sub-floors or on insulation boards

Safe and efficient operation: flexible power output from 60 to 150W/m<sup>2</sup>, closer loops for higher output and wider loops for lower output

Installer friendly kits with easy to unroll spooling system and all installation accessories included

Available in kits without thermostat and in EcoDesign compatible kits including the energy efficient and advanced SENZ WIFI touchscreen thermostat that can be controlled through the SENZ WIFI app or through voice control using Alexa or Google Assistant compatible smart speakers.

Reliable during long life: 12 to 20 year total care warranty available, no maintenance required

## SPECIFICATIONS

|                                      |                        |
|--------------------------------------|------------------------|
| <b>Cold Lead Length:</b>             | 2.5 m                  |
| <b>Min Installation Temperature:</b> | 5 °C                   |
| <b>Outer Diameter:</b>               | 5.5 mm                 |
| <b>Min Cable Spacing:</b>            | 50 mm                  |
| <b>Nominal Voltage:</b>              | 230 V                  |
| <b>Color:</b>                        | Blue                   |
| <b>Ground Path Type:</b>             | Braid                  |
| <b>Heating Cable Technology:</b>     | Constant Wattage       |
| <b>Outer Jacket Material:</b>        | Low Smoke Zero Halogen |
| <b>Spooling System:</b>              | Yes                    |

Table 1/2

| Catalog Number | Item Name             | Nominal Power Output | Power  | Power Output, Typical     | Resistance Range | Length |
|----------------|-----------------------|----------------------|--------|---------------------------|------------------|--------|
| SZ18300401     | R-BL-A-25M/SENZ-WIFI  | 10 W/m               | 250 W  | 60 – 125 W/m <sup>2</sup> | 201.9 – 233.8 Ω  | 25 m   |
| SZ18300402     | R-BL-A-30M/SENZ-WIFI  | 10 W/m               | 305 W  | 60 – 125 W/m <sup>2</sup> | 165.3 – 191.4 Ω  | 30 m   |
| SZ18300403     | R-BL-A-40M/SENZ-WIFI  | 10 W/m               | 400 W  | 60 – 125 W/m <sup>2</sup> | 125.4 – 145.2 Ω  | 40 m   |
| SZ18300404     | R-BL-A-50M/SENZ-WIFI  | 10 W/m               | 505 W  | 60 – 125 W/m <sup>2</sup> | 99.8 – 115.5 Ω   | 50 m   |
| SZ18300405     | R-BL-A-60M/SENZ-WIFI  | 10 W/m               | 605 W  | 60 – 125 W/m <sup>2</sup> | 83.2 – 96.4 Ω    | 60 m   |
| SZ18300406     | R-BL-A-70M/SENZ-WIFI  | 10 W/m               | 700 W  | 60 – 125 W/m <sup>2</sup> | 71.8 – 83.2 Ω    | 70 m   |
| SZ18300407     | R-BL-A-80M/SENZ-WIFI  | 10 W/m               | 805 W  | 60 – 125 W/m <sup>2</sup> | 62.3 – 72.2 Ω    | 80 m   |
| SZ18300408     | R-BL-A-90M/SENZ-WIFI  | 10 W/m               | 890 W  | 60 – 125 W/m <sup>2</sup> | 56.4 – 65.3 Ω    | 90 m   |
| SZ18300409     | R-BL-A-101M/SENZ-WIFI | 10 W/m               | 1010 W | 60 – 125 W/m <sup>2</sup> | 49.9 – 57.8 Ω    | 101 m  |
| SZ18300410     | R-BL-A-121M/SENZ-WIFI | 10 W/m               | 1215 W | 60 – 125 W/m <sup>2</sup> | 41.4 – 47.9 Ω    | 121 m  |
| SZ18300411     | R-BL-A-142M/SENZ-WIFI | 10 W/m               | 1420 W | 60 – 125 W/m <sup>2</sup> | 35.1 – 40.6 Ω    | 142 m  |
| SZ18300412     | R-BL-A-160M/SENZ-WIFI | 10 W/m               | 1600 W | 60 – 125 W/m <sup>2</sup> | 30.4 – 35.2 Ω    | 160 m  |
| SZ18300413     | R-BL-A-180M/SENZ-WIFI | 10 W/m               | 1800 W | 60 – 125 W/m <sup>2</sup> | 27.4 – 31.7 Ω    | 180 m  |
| SZ18300414     | R-BL-A-200M/SENZ-WIFI | 10 W/m               | 2000 W | 60 – 125 W/m <sup>2</sup> | 24.7 – 28.6 Ω    | 200 m  |
| SZ18300415     | R-BL-C-11M/SENZ-WIFI  | 20 W/m               | 205 W  | 80 – 150 W/m <sup>2</sup> | 246.6 – 285.6 Ω  | 11 m   |
| SZ18300416     | R-BL-C-14M/SENZ-WIFI  | 20 W/m               | 285 W  | 80 – 150 W/m <sup>2</sup> | 176.9 – 204.8 Ω  | 14 m   |

| CatalogNumber | Item Name             | Nominal Power Output | Power  | Power Output, Typical     | Resistance Range | Length |
|---------------|-----------------------|----------------------|--------|---------------------------|------------------|--------|
| SZ18300417    | R-BL-C-18M/SENZ-WIFI  | 20 W/m               | 355 W  | 80 – 150 W/m <sup>2</sup> | 145.4 – 168.3 Ω  | 18 m   |
| SZ18300418    | R-BL-C-21M/SENZ-WIFI  | 20 W/m               | 435 W  | 80 – 150 W/m <sup>2</sup> | 115.7 – 134 Ω    | 21 m   |
| SZ18300419    | R-BL-C-28M/SENZ-WIFI  | 20 W/m               | 575 W  | 80 – 150 W/m <sup>2</sup> | 87.8 – 101.6 Ω   | 28 m   |
| SZ18300420    | R-BL-C-35M/SENZ-WIFI  | 20 W/m               | 720 W  | 80 – 150 W/m <sup>2</sup> | 69.8 – 80.9 Ω    | 35 m   |
| SZ18300421    | R-BL-C-43M/SENZ-WIFI  | 20 W/m               | 845 W  | 80 – 150 W/m <sup>2</sup> | 59.6 – 69.1 Ω    | 43 m   |
| SZ18300422    | R-BL-C-50M/SENZ-WIFI  | 20 W/m               | 980 W  | 80 – 150 W/m <sup>2</sup> | 51.3 – 59.4 Ω    | 50 m   |
| SZ18300423    | R-BL-C-57M/SENZ-WIFI  | 20 W/m               | 1130 W | 80 – 150 W/m <sup>2</sup> | 44.4 – 51.4 Ω    | 57 m   |
| SZ18300424    | R-BL-C-63M/SENZ-WIFI  | 20 W/m               | 1270 W | 80 – 150 W/m <sup>2</sup> | 39.5 – 45.7 Ω    | 63 m   |
| SZ18300425    | R-BL-C-71M/SENZ-WIFI  | 20 W/m               | 1435 W | 80 – 150 W/m <sup>2</sup> | 35.1 – 40.6 Ω    | 71 m   |
| SZ18300426    | R-BL-C-86M/SENZ-WIFI  | 20 W/m               | 1710 W | 80 – 150 W/m <sup>2</sup> | 29.4 – 34.1 Ω    | 86 m   |
| SZ18300427    | R-BL-C-101M/SENZ-WIFI | 20 W/m               | 2015 W | 80 – 150 W/m <sup>2</sup> | 24.9 – 28.9 Ω    | 101 m  |
| SZ18300428    | R-BL-C-115M/SENZ-WIFI | 20 W/m               | 2300 W | 80 – 150 W/m <sup>2</sup> | 21.9 – 25.3 Ω    | 115 m  |
| 1244-001887   | R-BL-A-101M/T0/SD     | 10 W/m               | 1010 W | 60 – 125 W/m <sup>2</sup> | 49.9 – 57.8 Ω    | 101 m  |
| 1244-001902   | R-BL-C-101M/T0/SD     | 20 W/m               | 2015 W | 80 – 150 W/m <sup>2</sup> | 24.9 – 28.9 Ω    | 101 m  |
| SZ18300369    | R-BL-A-10M/T0/SD      | 10 W/m               | 100 W  | 60 – 125 W/m <sup>2</sup> | 503.5 – 583 Ω    | 10 m   |
| SZ18300370    | R-BL-A-15M/T0/SD      | 10 W/m               | 150 W  | 60 – 125 W/m <sup>2</sup> | 336.3 – 389.4 Ω  | 15 m   |
| SZ18300371    | R-BL-A-20M/T0/SD      | 10 W/m               | 200 W  | 60 – 125 W/m <sup>2</sup> | 252.7 – 292.6 Ω  | 20 m   |
| SZ18300372    | R-BL-A-25M/T0/SD      | 10 W/m               | 250 W  | 60 – 125 W/m <sup>2</sup> | 201.9 – 233.8 Ω  | 25 m   |

| CatalogNumber | Item Name         | Nominal Power Output | Power  | Power Output, Typical     | Resistance Range | Length |
|---------------|-------------------|----------------------|--------|---------------------------|------------------|--------|
| SZ18300373    | R-BL-A-30M/T0/SD  | 10 W/m               | 305 W  | 60 – 125 W/m <sup>2</sup> | 165.3 – 191.4 Ω  | 30 m   |
| SZ18300374    | R-BL-A-40M/T0/SD  | 10 W/m               | 400 W  | 60 – 125 W/m <sup>2</sup> | 125.4 – 145.2 Ω  | 40 m   |
| SZ18300375    | R-BL-A-50M/T0/SD  | 10 W/m               | 505 W  | 60 – 125 W/m <sup>2</sup> | 99.8 – 115.5 Ω   | 50 m   |
| SZ18300376    | R-BL-A-60M/T0/SD  | 10 W/m               | 605 W  | 60 – 125 W/m <sup>2</sup> | 83.2 – 96.4 Ω    | 60 m   |
| SZ18300377    | R-BL-A-70M/T0/SD  | 10 W/m               | 700 W  | 60 – 125 W/m <sup>2</sup> | 71.8 – 83.2 Ω    | 70 m   |
| SZ18300378    | R-BL-A-80M/T0/SD  | 10 W/m               | 805 W  | 60 – 125 W/m <sup>2</sup> | 62.3 – 72.2 Ω    | 80 m   |
| SZ18300379    | R-BL-A-90M/T0/SD  | 10 W/m               | 890 W  | 60 – 125 W/m <sup>2</sup> | 56.4 – 65.3 Ω    | 90 m   |
| SZ18300380    | R-BL-A-121M/T0/SD | 10 W/m               | 1215 W | 60 – 125 W/m <sup>2</sup> | 41.4 – 47.9 Ω    | 121 m  |
| SZ18300381    | R-BL-A-142M/T0/SD | 10 W/m               | 1420 W | 60 – 125 W/m <sup>2</sup> | 35.1 – 40.6 Ω    | 142 m  |
| SZ18300382    | R-BL-A-160M/T0/SD | 10 W/m               | 1600 W | 60 – 125 W/m <sup>2</sup> | 30.4 – 35.2 Ω    | 160 m  |
| SZ18300383    | R-BL-A-180M/T0/SD | 10 W/m               | 1800 W | 60 – 125 W/m <sup>2</sup> | 27.4 – 31.7 Ω    | 180 m  |
| SZ18300384    | R-BL-A-200M/T0/SD | 10 W/m               | 2000 W | 60 – 125 W/m <sup>2</sup> | 24.7 – 28.6 Ω    | 200 m  |
| SZ18300385    | R-BL-C-11M/T0/SD  | 20 W/m               | 205 W  | 80 – 150 W/m <sup>2</sup> | 246.6 – 285.6 Ω  | 11 m   |
| SZ18300386    | R-BL-C-14M/T0/SD  | 20 W/m               | 285 W  | 80 – 150 W/m <sup>2</sup> | 176.9 – 204.8 Ω  | 14 m   |
| SZ18300387    | R-BL-C-18M/T0/SD  | 20 W/m               | 355 W  | 80 – 150 W/m <sup>2</sup> | 145.4 – 168.3 Ω  | 18 m   |
| SZ18300388    | R-BL-C-21M/T0/SD  | 20 W/m               | 435 W  | 80 – 150 W/m <sup>2</sup> | 115.7 – 134 Ω    | 21 m   |
| SZ18300389    | R-BL-C-28M/T0/SD  | 20 W/m               | 575 W  | 80 – 150 W/m <sup>2</sup> | 87.8 – 101.6 Ω   | 28 m   |
| SZ18300390    | R-BL-C-35M/T0/SD  | 20 W/m               | 720 W  | 80 – 150 W/m <sup>2</sup> | 69.8 – 80.9 Ω    | 35 m   |

| CatalogNumber | Item Name            | Nominal Power Output | Power  | Power Output, Typical     | Resistance Range | Length |
|---------------|----------------------|----------------------|--------|---------------------------|------------------|--------|
| SZ18300391    | R-BL-C-43M/T0/SD     | 20 W/m               | 845 W  | 80 – 150 W/m <sup>2</sup> | 59.6 – 69.1 Ω    | 43 m   |
| SZ18300392    | R-BL-C-50M/T0/SD     | 20 W/m               | 980 W  | 80 – 150 W/m <sup>2</sup> | 51.3 – 59.4 Ω    | 50 m   |
| SZ18300393    | R-BL-C-57M/T0/SD     | 20 W/m               | 1130 W | 80 – 150 W/m <sup>2</sup> | 44.4 – 51.4 Ω    | 57 m   |
| SZ18300394    | R-BL-C-63M/T0/SD     | 20 W/m               | 1270 W | 80 – 150 W/m <sup>2</sup> | 39.5 – 45.7 Ω    | 63 m   |
| SZ18300395    | R-BL-C-71M/T0/SD     | 20 W/m               | 1435 W | 80 – 150 W/m <sup>2</sup> | 35.1 – 40.6 Ω    | 71 m   |
| SZ18300396    | R-BL-C-86M/T0/SD     | 20 W/m               | 1710 W | 80 – 150 W/m <sup>2</sup> | 29.4 – 34.1 Ω    | 86 m   |
| SZ18300397    | R-BL-C-115M/T0/SD    | 20 W/m               | 2300 W | 80 – 150 W/m <sup>2</sup> | 21.9 – 25.3 Ω    | 115 m  |
| SZ18300398    | R-BL-A-10M/SENZ-WIFI | 10 W/m               | 100 W  | 60 – 125 W/m <sup>2</sup> | 503.5 – 583 Ω    | 10 m   |
| SZ18300399    | R-BL-A-15M/SENZ-WIFI | 10 W/m               | 150 W  | 60 – 125 W/m <sup>2</sup> | 336.3 – 389.4 Ω  | 15 m   |
| SZ18300400    | R-BL-A-20M/SENZ-WIFI | 10 W/m               | 200 W  | 60 – 125 W/m <sup>2</sup> | 252.7 – 292.6 Ω  | 20 m   |

Table 2/2

| Catalog Number | Item Name            | Thermostat Included |
|----------------|----------------------|---------------------|
| SZ18300401     | R-BL-A-25M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300402     | R-BL-A-30M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300403     | R-BL-A-40M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300404     | R-BL-A-50M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300405     | R-BL-A-60M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300406     | R-BL-A-70M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300407     | R-BL-A-80M/SENZ-WIFI | SENZ-WIFI           |

| Catalog Number | Item Name             | Thermostat Included |
|----------------|-----------------------|---------------------|
| SZ18300408     | R-BL-A-90M/SENZ-WIFI  | SENZ-WIFI           |
| SZ18300409     | R-BL-A-101M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300410     | R-BL-A-121M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300411     | R-BL-A-142M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300412     | R-BL-A-160M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300413     | R-BL-A-180M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300414     | R-BL-A-200M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300415     | R-BL-C-11M/SENZ-WIFI  | SENZ-WIFI           |
| SZ18300416     | R-BL-C-14M/SENZ-WIFI  | SENZ-WIFI           |
| SZ18300417     | R-BL-C-18M/SENZ-WIFI  | SENZ-WIFI           |
| SZ18300418     | R-BL-C-21M/SENZ-WIFI  | SENZ-WIFI           |
| SZ18300419     | R-BL-C-28M/SENZ-WIFI  | SENZ-WIFI           |
| SZ18300420     | R-BL-C-35M/SENZ-WIFI  | SENZ-WIFI           |
| SZ18300421     | R-BL-C-43M/SENZ-WIFI  | SENZ-WIFI           |
| SZ18300422     | R-BL-C-50M/SENZ-WIFI  | SENZ-WIFI           |
| SZ18300423     | R-BL-C-57M/SENZ-WIFI  | SENZ-WIFI           |
| SZ18300424     | R-BL-C-63M/SENZ-WIFI  | SENZ-WIFI           |
| SZ18300425     | R-BL-C-71M/SENZ-WIFI  | SENZ-WIFI           |

| Catalog Number | Item Name             | Thermostat Included |
|----------------|-----------------------|---------------------|
| SZ18300426     | R-BL-C-86M/SENZ-WIFI  | SENZ-WIFI           |
| SZ18300427     | R-BL-C-101M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300428     | R-BL-C-115M/SENZ-WIFI | SENZ-WIFI           |
| 1244-001887    | R-BL-A-101M/T0/SD     | No                  |
| 1244-001902    | R-BL-C-101M/T0/SD     | No                  |
| SZ18300369     | R-BL-A-10M/T0/SD      | No                  |
| SZ18300370     | R-BL-A-15M/T0/SD      | No                  |
| SZ18300371     | R-BL-A-20M/T0/SD      | No                  |
| SZ18300372     | R-BL-A-25M/T0/SD      | No                  |
| SZ18300373     | R-BL-A-30M/T0/SD      | No                  |
| SZ18300374     | R-BL-A-40M/T0/SD      | No                  |
| SZ18300375     | R-BL-A-50M/T0/SD      | No                  |
| SZ18300376     | R-BL-A-60M/T0/SD      | No                  |
| SZ18300377     | R-BL-A-70M/T0/SD      | No                  |
| SZ18300378     | R-BL-A-80M/T0/SD      | No                  |
| SZ18300379     | R-BL-A-90M/T0/SD      | No                  |
| SZ18300380     | R-BL-A-121M/T0/SD     | No                  |
| SZ18300381     | R-BL-A-142M/T0/SD     | No                  |

| Catalog Number | Item Name            | Thermostat Included |
|----------------|----------------------|---------------------|
| SZ18300382     | R-BL-A-160M/T0/SD    | No                  |
| SZ18300383     | R-BL-A-180M/T0/SD    | No                  |
| SZ18300384     | R-BL-A-200M/T0/SD    | No                  |
| SZ18300385     | R-BL-C-11M/T0/SD     | No                  |
| SZ18300386     | R-BL-C-14M/T0/SD     | No                  |
| SZ18300387     | R-BL-C-18M/T0/SD     | No                  |
| SZ18300388     | R-BL-C-21M/T0/SD     | No                  |
| SZ18300389     | R-BL-C-28M/T0/SD     | No                  |
| SZ18300390     | R-BL-C-35M/T0/SD     | No                  |
| SZ18300391     | R-BL-C-43M/T0/SD     | No                  |
| SZ18300392     | R-BL-C-50M/T0/SD     | No                  |
| SZ18300393     | R-BL-C-57M/T0/SD     | No                  |
| SZ18300394     | R-BL-C-63M/T0/SD     | No                  |
| SZ18300395     | R-BL-C-71M/T0/SD     | No                  |
| SZ18300396     | R-BL-C-86M/T0/SD     | No                  |
| SZ18300397     | R-BL-C-115M/T0/SD    | No                  |
| SZ18300398     | R-BL-A-10M/SENZ-WIFI | SENZ-WIFI           |
| SZ18300399     | R-BL-A-15M/SENZ-WIFI | SENZ-WIFI           |



| Catalog Number | Item Name            | Thermostat Included |
|----------------|----------------------|---------------------|
| SZ18300400     | R-BL-A-20M/SENZ-WIFI | SENZ-WIFI           |

## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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